

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE111318\
 Data File : BE098213.D
 Acq On : 13 Nov 2018 17:52
 Operator : SJ/JU
 Sample : J5864-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Nov 13 18:24:27 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE111218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 12 13:32:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.87	152	1117	0.40	ng	0.01
7) Naphthalene-d8	10.68	136	5577	0.40	ng	0.01
13) Acenaphthene-d10	14.54	164	3811	0.40	ng	0.01
19) Phenanthrene-d10	17.28	188	9661	0.40	ng	0.00
27) Chrysene-d12	21.46	240	10517	0.40	ng	0.00
34) Perylene-d12	24.01	264	10067	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.46	112	1088	0.35	ng	0.00
5) Phenol-d6	7.05	99	1811	0.36	ng	0.00
8) Nitrobenzene-d5	9.03	82	1707	0.31	ng	0.01
11) 2-Methylnaphthalene-d10	12.28	152	3095	0.32	ng	0.01
14) 2,4,6-Tribromophenol	16.03	330	524	0.32	ng	0.01
15) 2-Fluorobiphenyl	13.16	172	4633	0.29	ng	0.01
25) Fluoranthene-d10	19.32	212	38943	0.32	ng	0.00
29) Terphenyl-d14	19.91	244	7044	0.30	ng	0.00

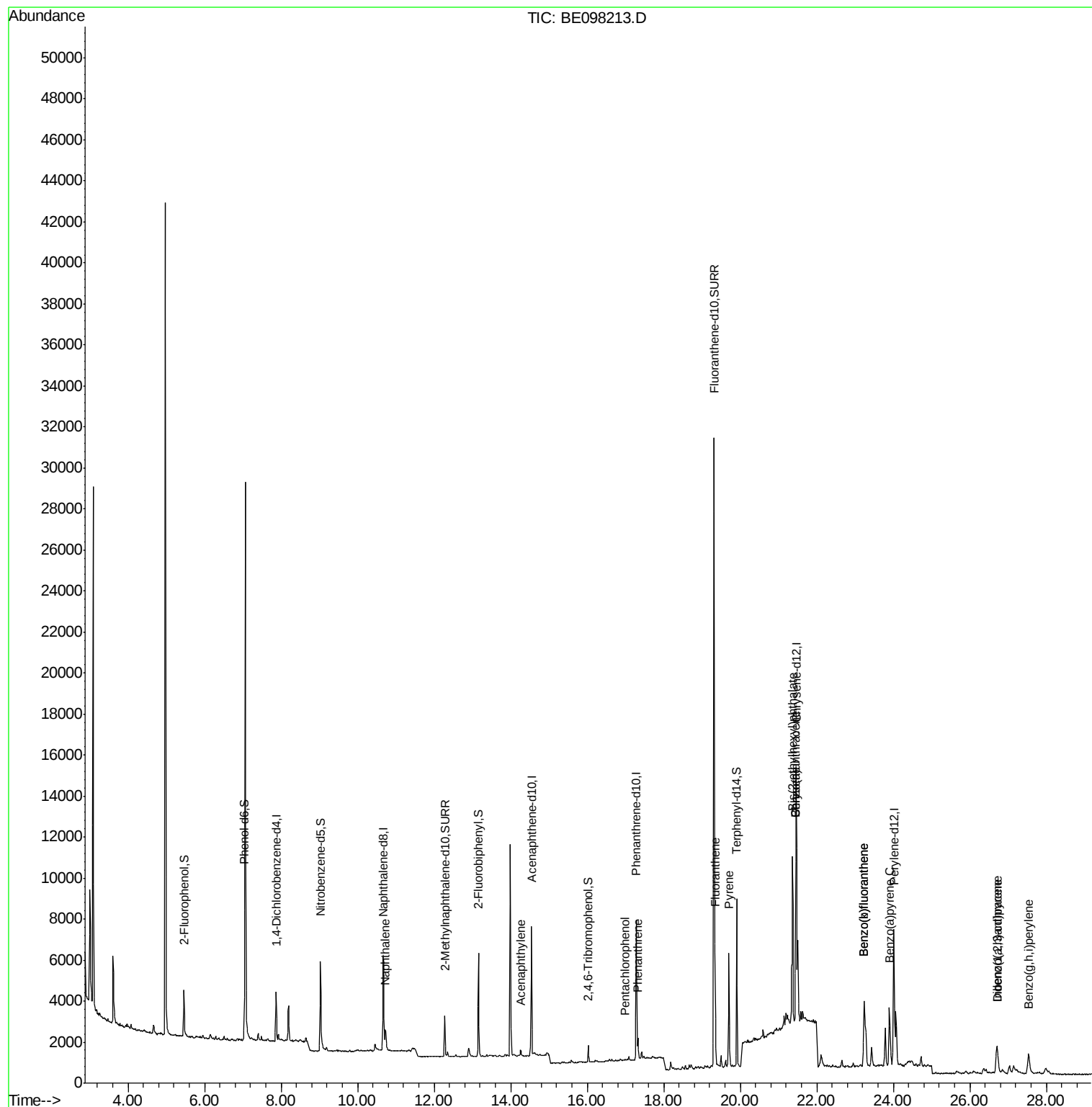
Target Compounds				Qvalue		
9) Naphthalene	10.73	128	1637	0.029	ng	# 89
16) Acenaphthylene	14.25	152	389	0.022	ng	# 82
22) Pentachlorophenol	16.98	266	28	0.100	ng	# 74
23) Phenanthrene	17.33	178	1052	0.044	ng	95
26) Fluoranthene	19.34	202	4670	0.157	ng	99
28) Pyrene	19.71	202	5083	0.176	ng	# 95
30) Benzo(a)anthracene	21.45	228	5347	0.179	ng	# 90
31) Chrysene	21.45	228	4965	0.164	ng	96
32) Bis(2-ethylhexyl)phthalate	21.37	149	14099	0.227	ng	100
33) Indeno(1,2,3-cd)pyrene	26.70	276	2774	0.100	ng	99
35) Benzo(b)fluoranthene	23.23	252	5821	0.204	ng	# 88
36) Benzo(k)fluoranthene	23.23	252	5821	0.193	ng	# 86
37) Benzo(a)pyrene	23.90	252	4887	0.178	ng	# 88
38) Dibenzo(a,h)anthracene	26.72	278	575	0.025	ng	# 49
39) Benzo(a,h,i)perylene	27.53	276	2736	0.112	ng	# 88

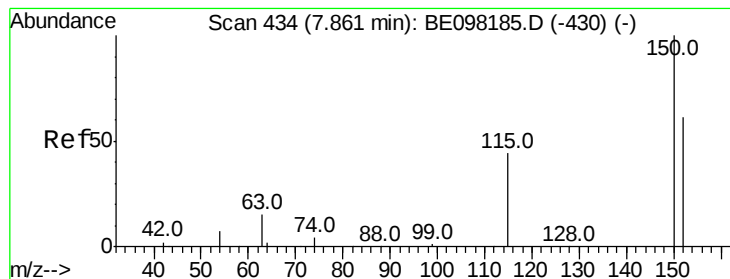
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA_E
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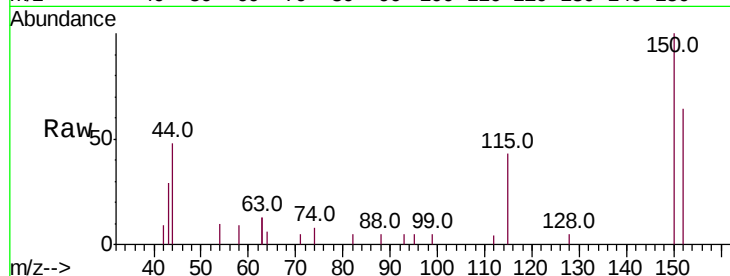


#1

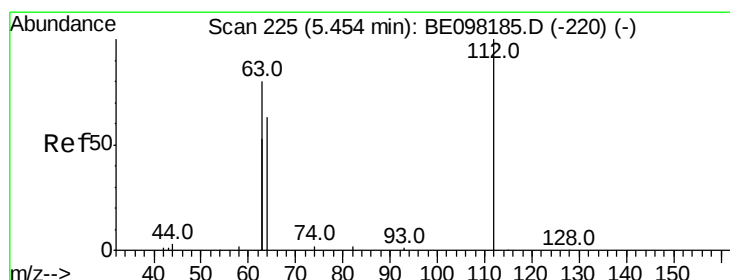
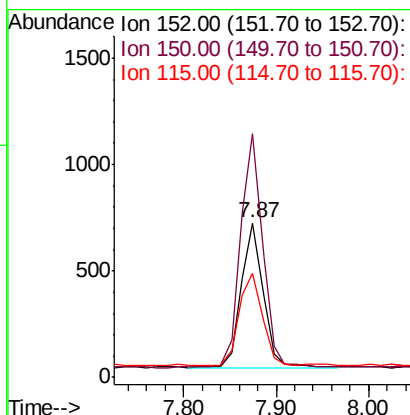
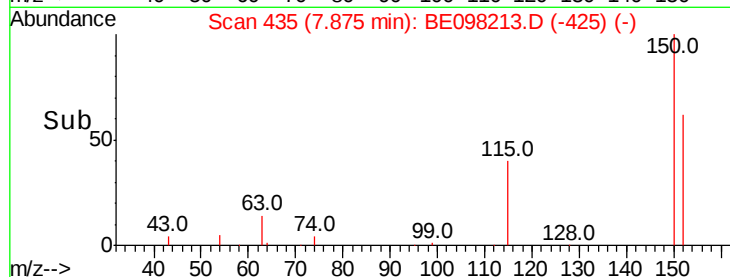
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.87 min Scan# 435
Delta R.T. 0.01 min
Lab File: BE098213.D
Acq: 13 Nov 2018 17:52

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 1117
Ion Ratio Lower Upper
152 100
150 157.4 127.5 191.3
115 67.7 60.3 90.5



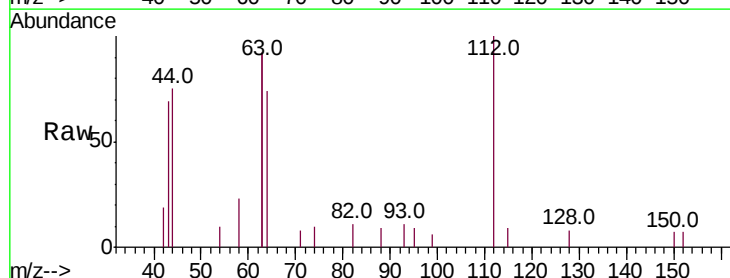
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



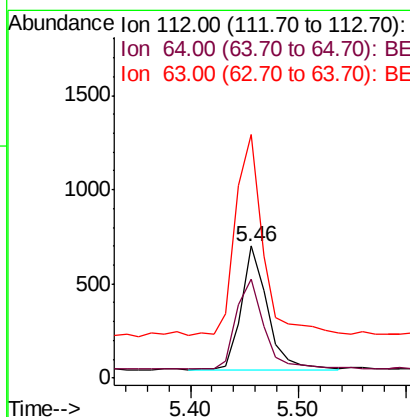
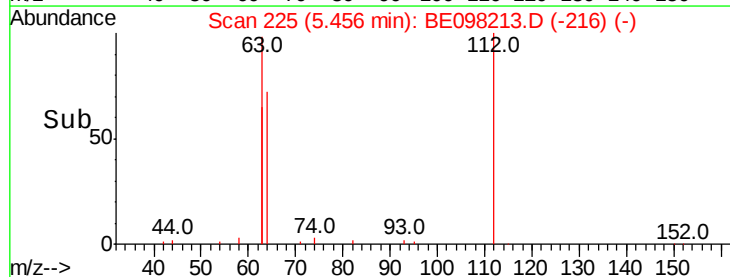
#4

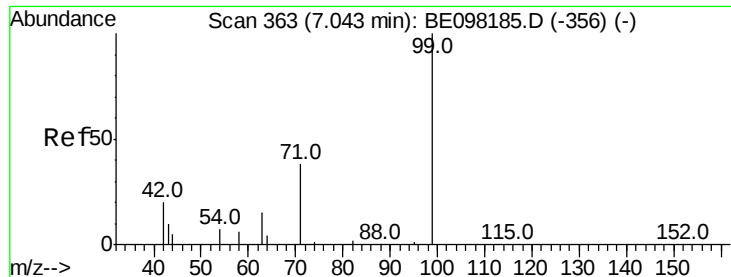
2-Fluorophenol
Concen: 0.345 ng
RT: 5.46 min Scan# 225
Delta R.T. 0.00 min
Lab File: BE098213.D
Acq: 13 Nov 2018 17:52

Tgt Ion:112 Resp: 1088
Ion Ratio Lower Upper
112 100
64 80.4 61.7 92.5
63 176.3 136.2 204.2



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.357 ng

RT: 7.05 min Scan# 363

Delta R.T. 0.00 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

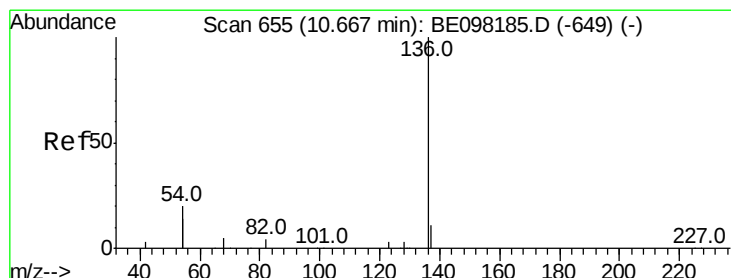
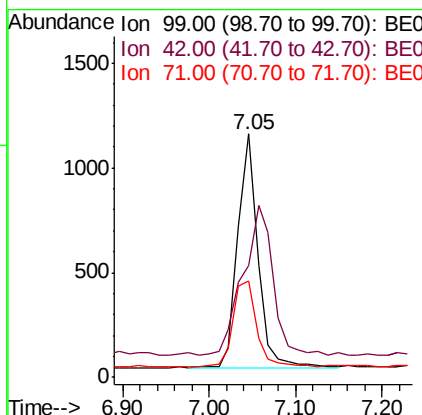
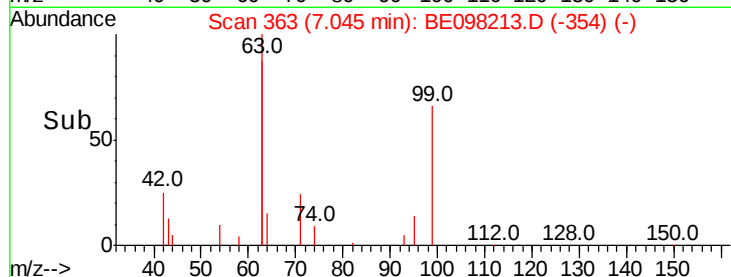
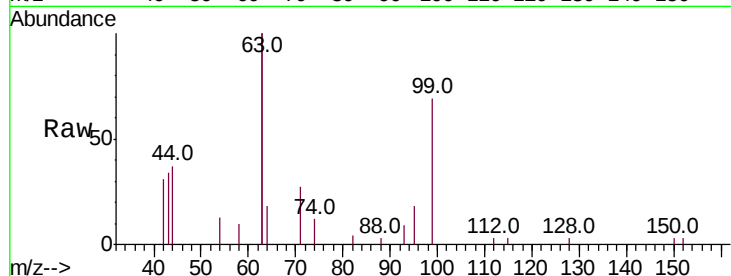
Instrument :

BNA_E

ClientSampleId :

Tot Ion: 99 Resp: 1811

Ion	Ratio	Lower	Upper
99	100		
42	96.2	27.1	40.7#
71	42.3	37.0	55.6



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.68 min Scan# 655

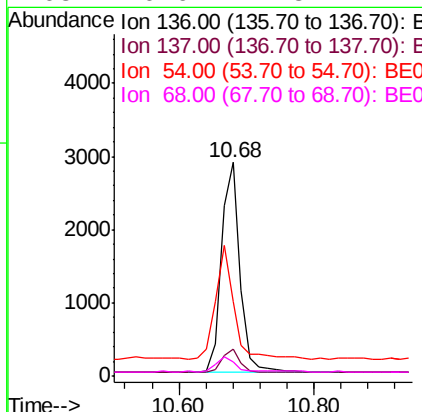
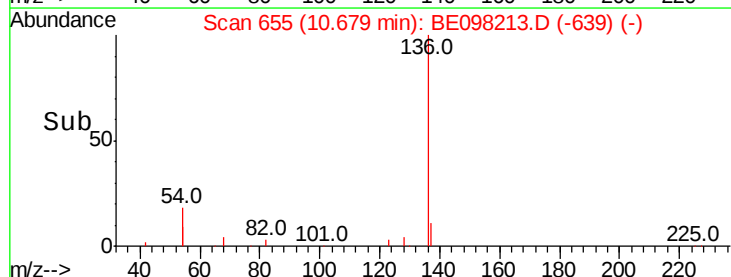
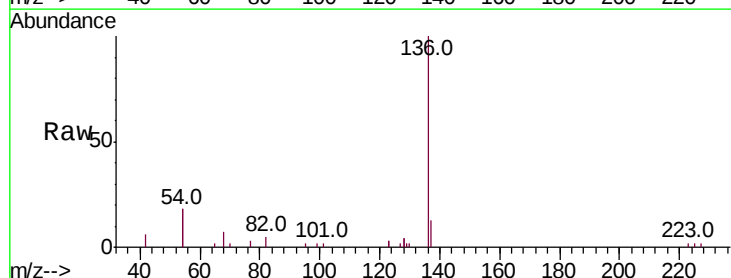
Delta R.T. 0.01 min

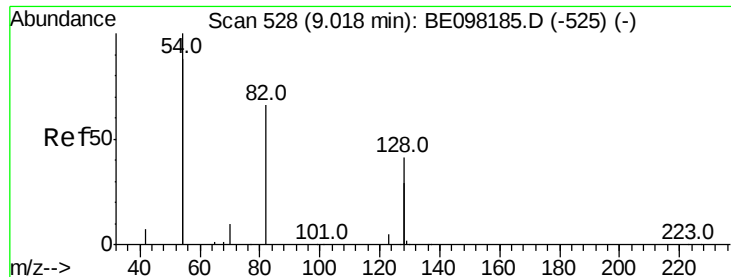
Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

Tgt Ion: 136 Resp: 5577

Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.5	14.3
54	35.0	31.3	46.9
68	6.6	4.8	7.2





#8

Nitrobenzene-d5

Concen: 0.307 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.01 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

Instrument :

BNA_E

ClientSampleId :

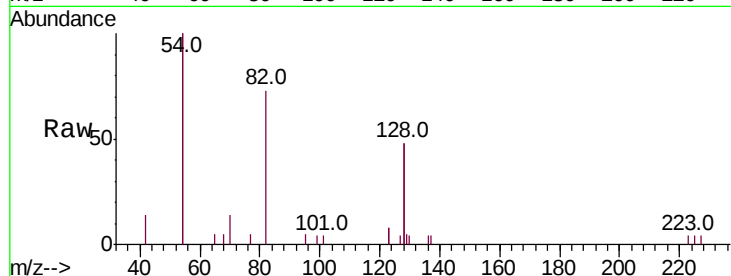
Tot Ion: 82 Resp: 1707

Ion Ratio Lower Upper

82 100

128 132.7 96.1 144.1

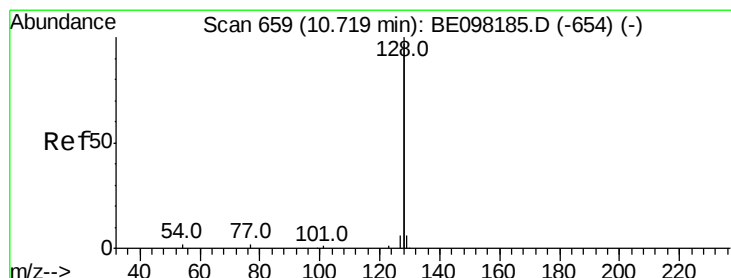
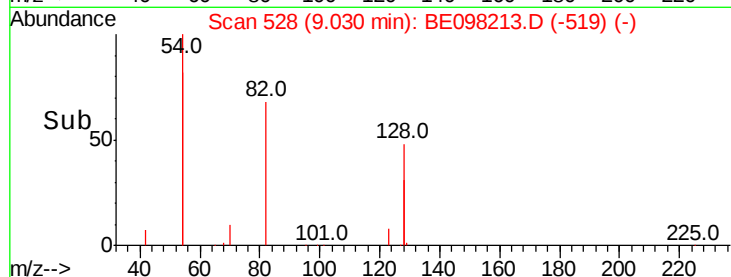
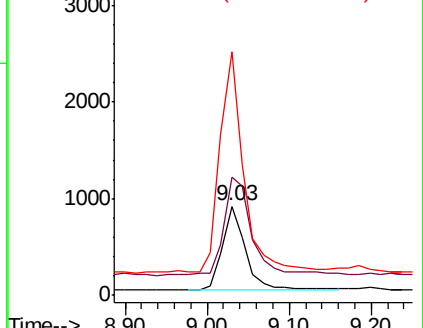
54 274.3 232.0 348.0



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.029 ng

RT: 10.73 min Scan# 659

Delta R.T. 0.01 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

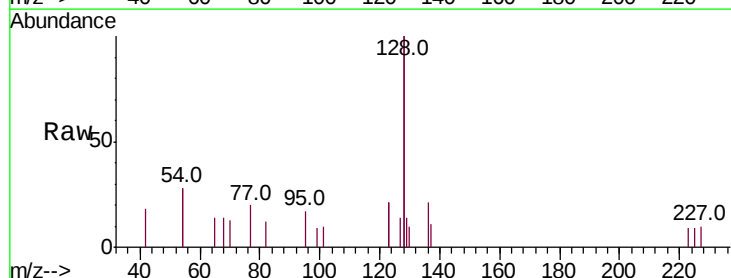
Tgt Ion: 128 Resp: 1637

Ion Ratio Lower Upper

128 100

129 7.1 2.6 4.0#

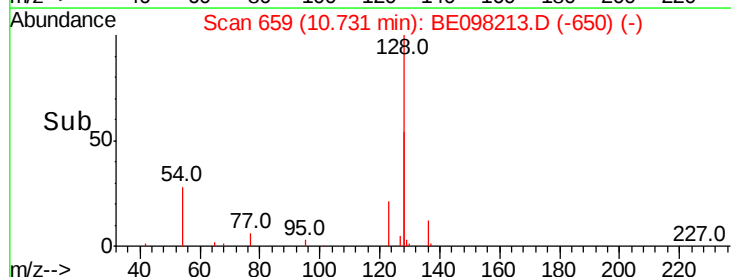
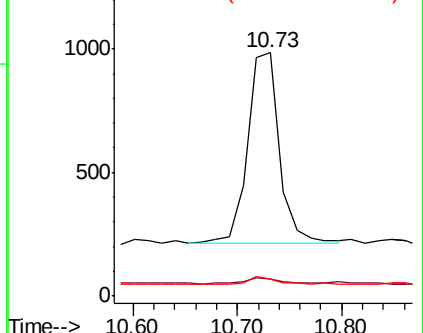
127 7.1 2.8 4.2#

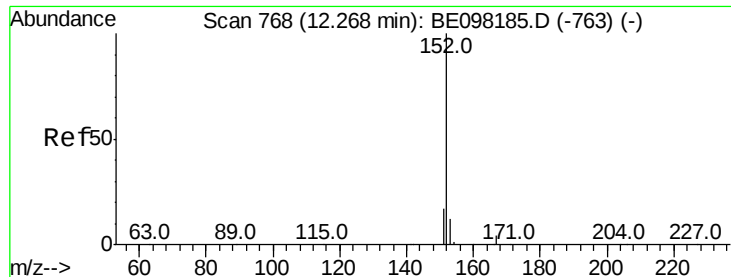


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.316 ng

RT: 12.28 min Scan# 768

Delta R.T. 0.01 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

Instrument :

BNA_E

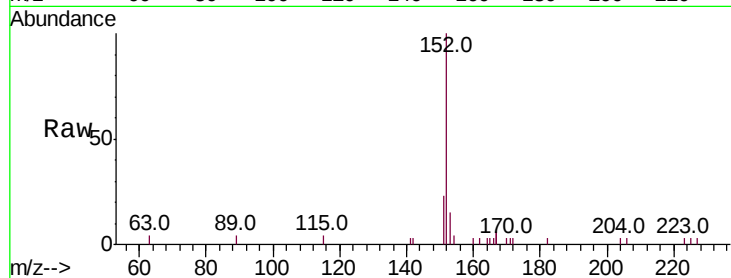
ClientSampleId :

Tot Ion:152 Resp: 3095

Ion Ratio Lower Upper

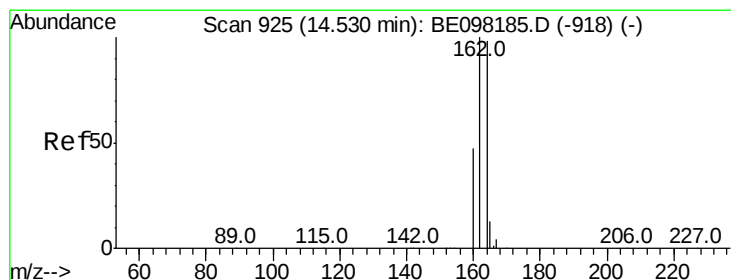
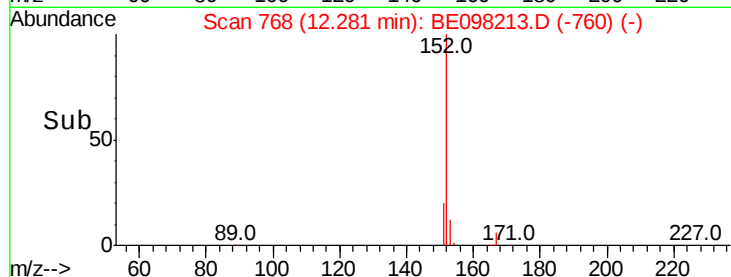
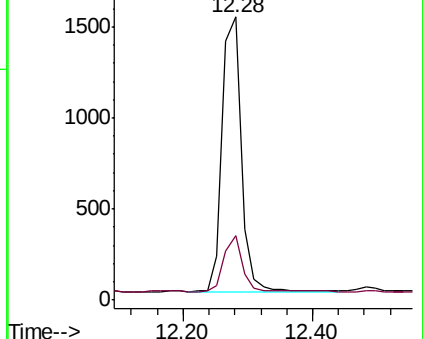
152 100

151 19.3 15.4 23.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

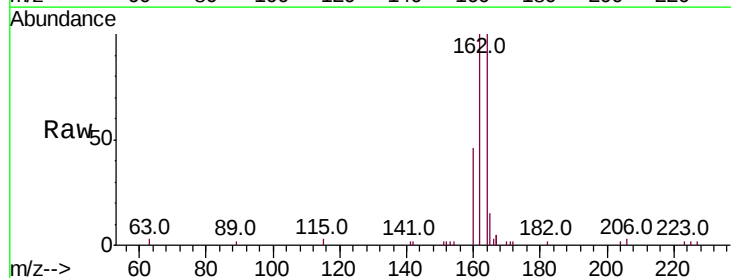
Tgt Ion:164 Resp: 3811

Ion Ratio Lower Upper

164 100

162 99.8 81.8 122.6

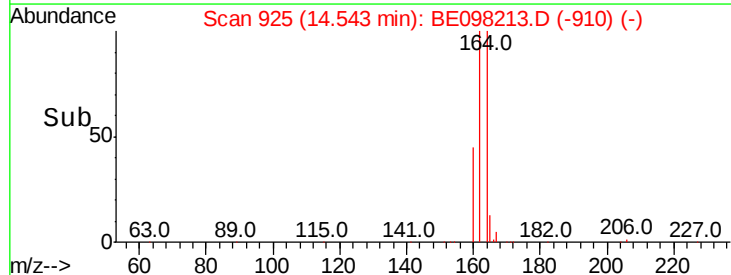
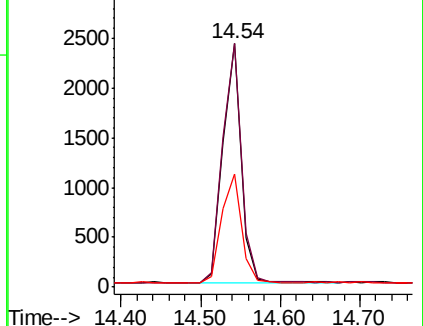
160 46.4 39.4 59.0

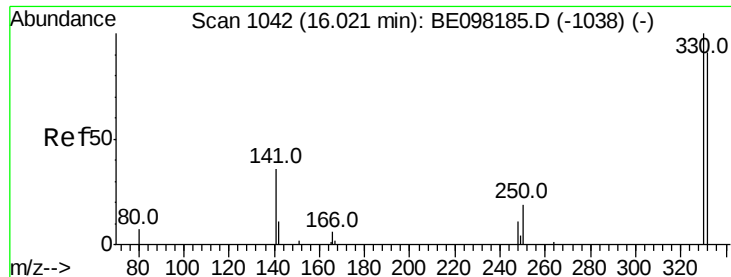


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

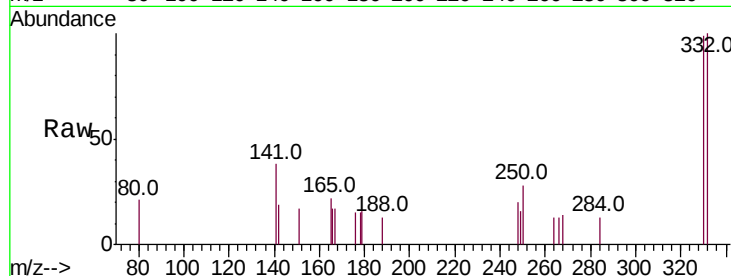




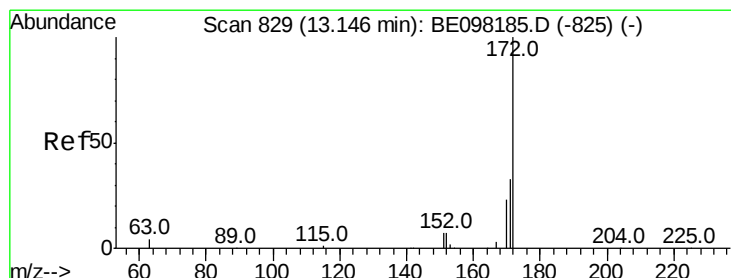
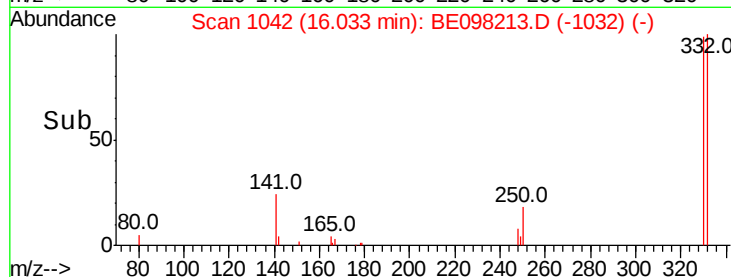
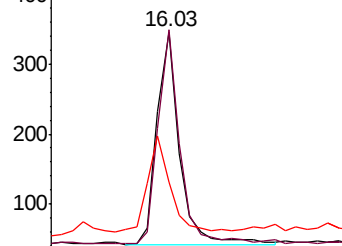
#14
 2,4,6-Tribromophenol
 Concen: 0.315 ng
 RT: 16.03 min Scan# 1042
 Delta R.T. 0.01 min
 Lab File: BE098213.D
 Acq: 13 Nov 2018 17:52

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:330 Resp: 524
 Ion Ratio Lower Upper
 330 100
 332 95.2 77.7 116.5
 141 46.0 33.6 50.4

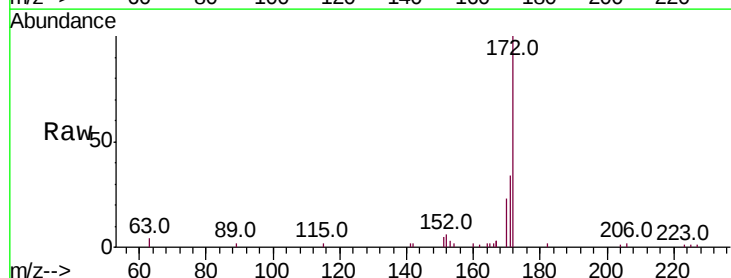


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

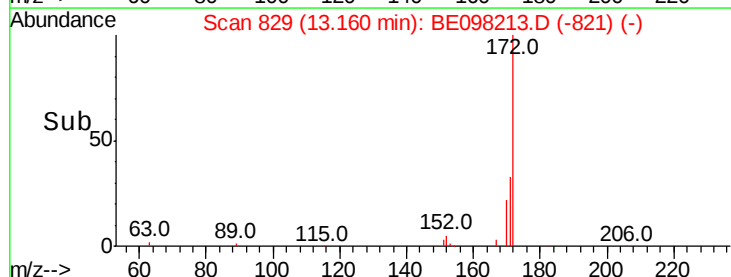
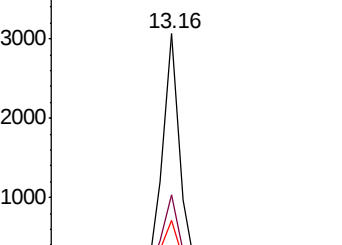


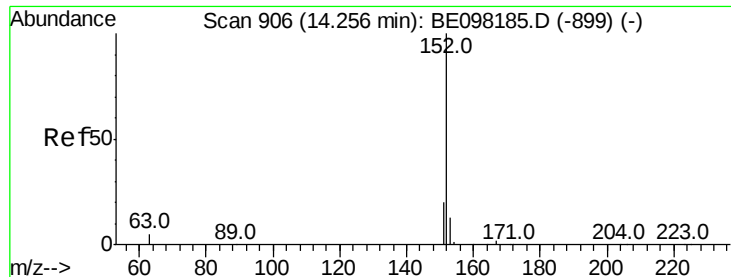
#15
 2-Fluorobiphenyl
 Concen: 0.290 ng
 RT: 13.16 min Scan# 829
 Delta R.T. 0.01 min
 Lab File: BE098213.D
 Acq: 13 Nov 2018 17:52

Tgt Ion:172 Resp: 4633
 Ion Ratio Lower Upper
 172 100
 171 33.7 27.3 40.9
 170 23.2 19.4 29.0



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

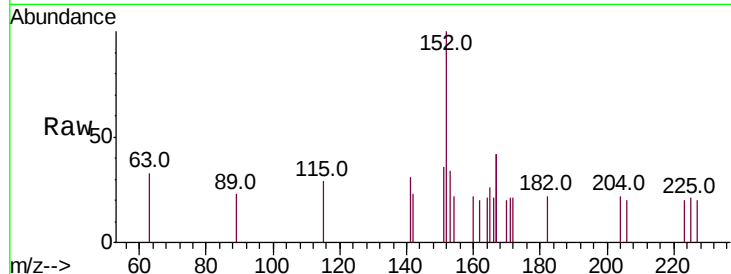




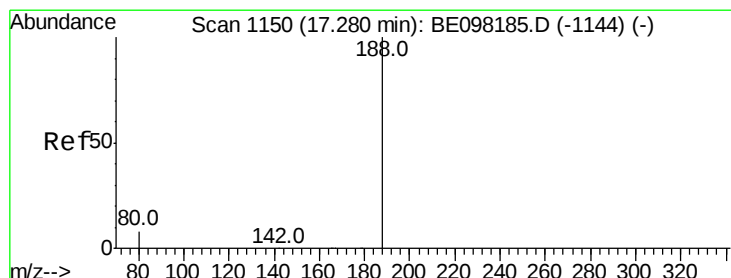
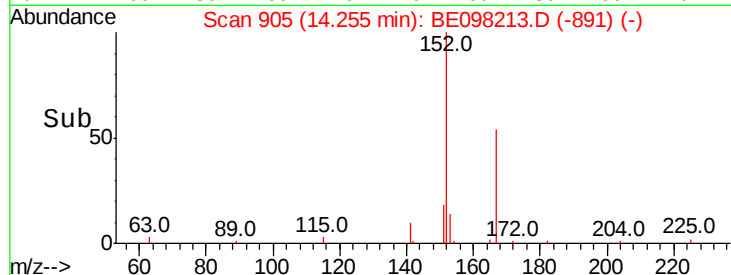
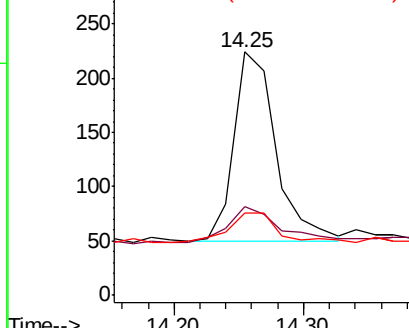
#16
Acenaphthylene
Concen: 0.022 ng
RT: 14.25 min Scan# 905
Delta R.T. -0.00 min
Lab File: BE098213.D
Acq: 13 Nov 2018 17:52

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 389
Ion Ratio Lower Upper
152 100
151 28.8 16.4 24.6#
153 20.1 10.6 15.8#

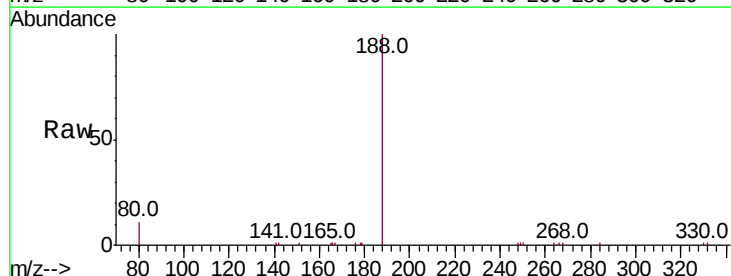


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

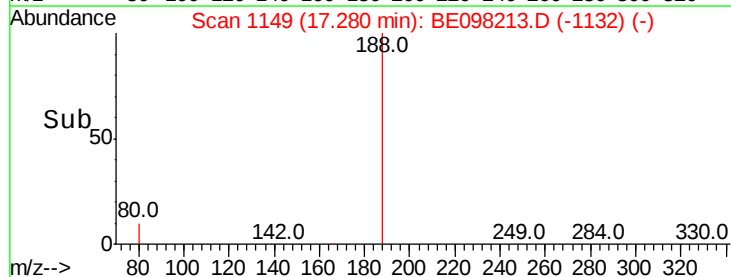
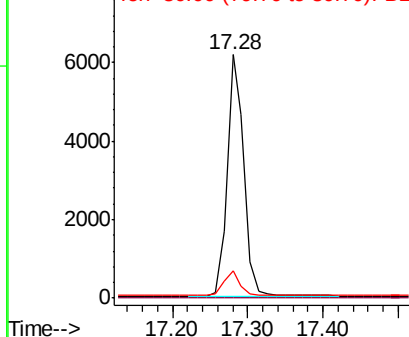


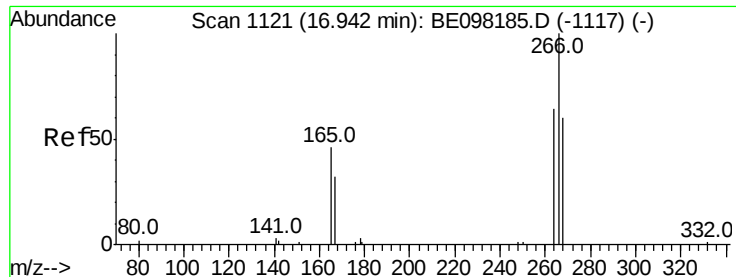
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.28 min Scan# 1149
Delta R.T. 0.00 min
Lab File: BE098213.D
Acq: 13 Nov 2018 17:52

Tgt Ion:188 Resp: 9661
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.3 6.7 10.1#



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

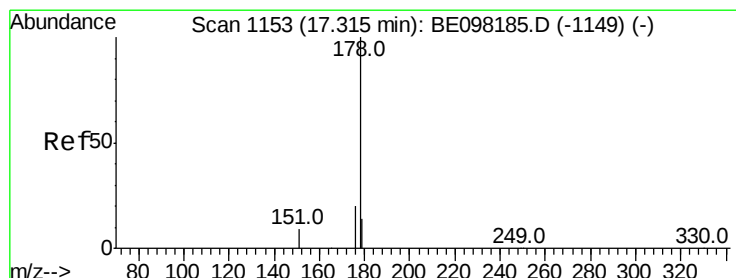
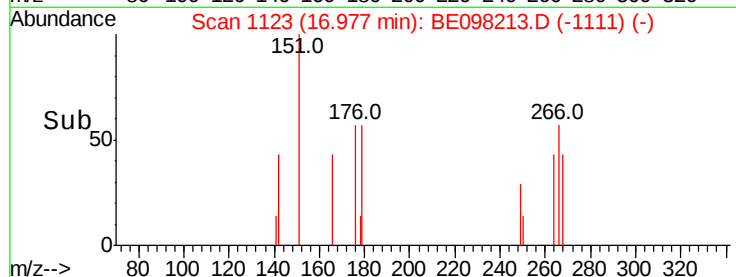
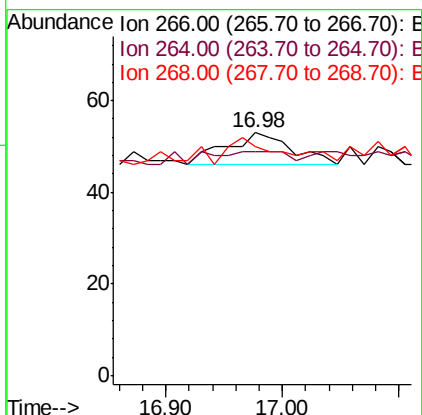
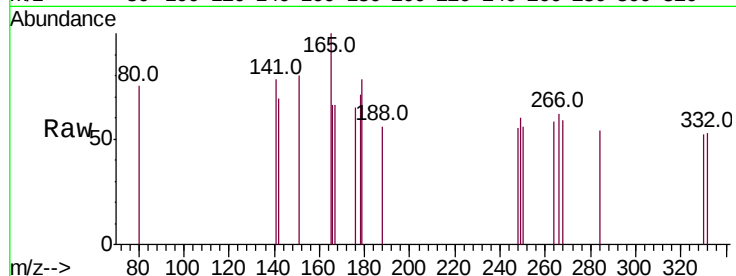




#22
 Pentachlorophenol
 Concen: 0.100 ng
 RT: 16.98 min Scan# 1123
 Delta R.T. 0.04 min
 Lab File: BE098213.D
 Acq: 13 Nov 2018 17:52

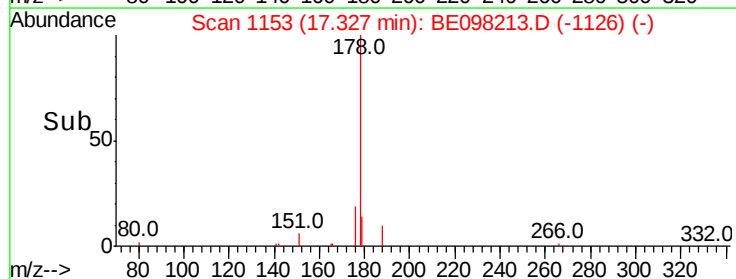
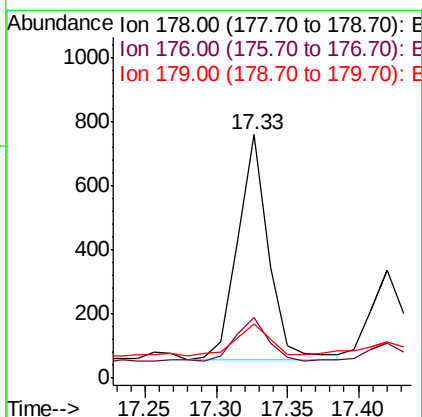
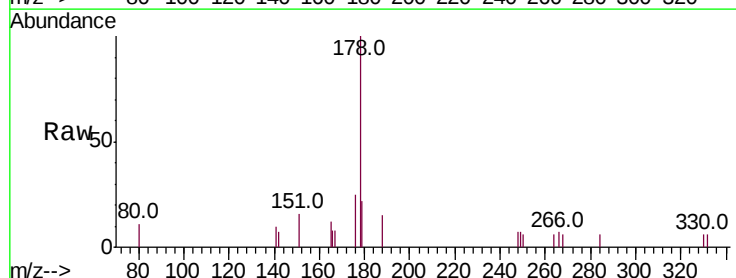
Instrument :
 BNA_E
 ClientSampled :

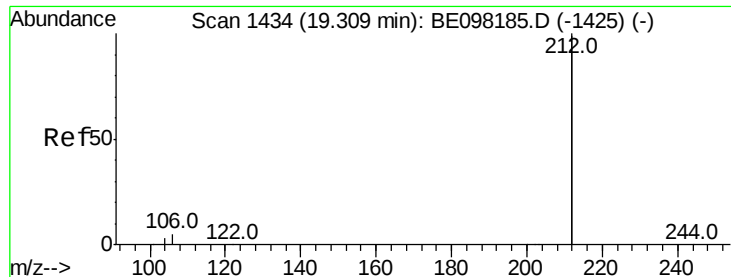
Tot Ion:266 Resp: 28
 Ion Ratio Lower Upper
 266 100
 264 92.5 57.6 86.4#
 268 94.3 56.8 85.2#



#23
 Phenanthrene
 Concen: 0.044 ng
 RT: 17.33 min Scan# 1153
 Delta R.T. 0.01 min
 Lab File: BE098213.D
 Acq: 13 Nov 2018 17:52

Tgt Ion:178 Resp: 1052
 Ion Ratio Lower Upper
 178 100
 176 22.0 15.8 23.8
 179 17.8 12.3 18.5





#25

Fluoranthene-d10

Concen: 0.323 ng

RT: 19.32 min Scan# 1434

Delta R.T. 0.01 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

Instrument :

BNA_E

ClientSampleId :

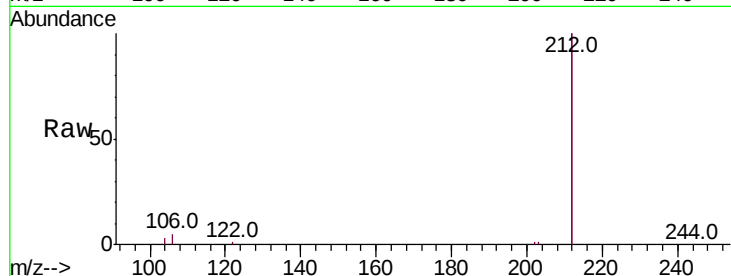
Tot Ion:212 Resp: 38943

Ion Ratio Lower Upper

212 100

106 2.5 1.8 2.8

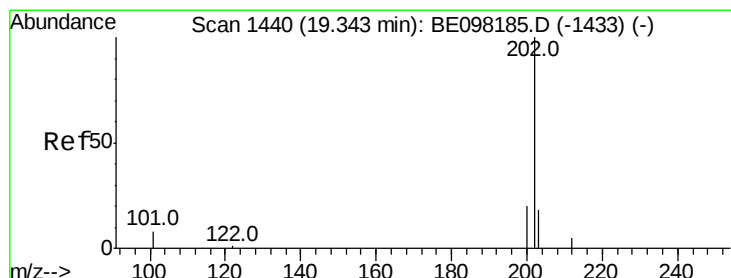
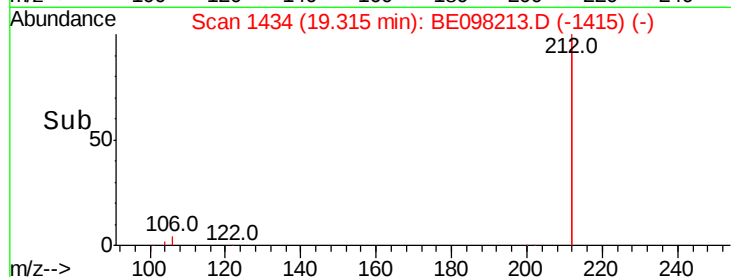
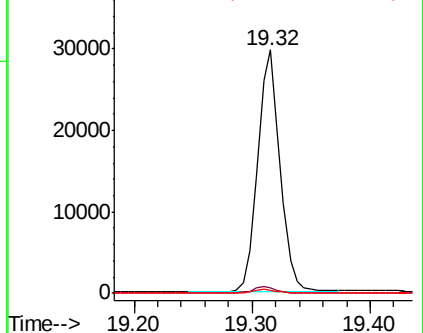
104 1.5 1.1 1.7



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.157 ng

RT: 19.34 min Scan# 1439

Delta R.T. 0.00 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

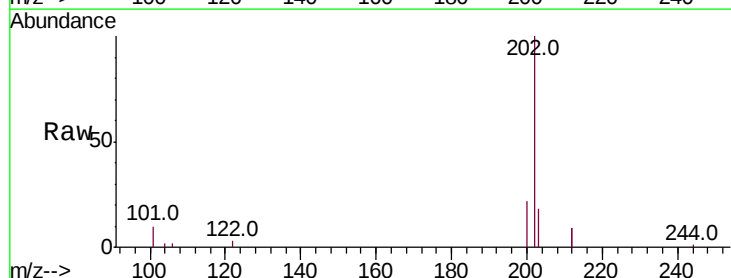
Tgt Ion:202 Resp: 4670

Ion Ratio Lower Upper

202 100

101 9.3 7.0 10.6

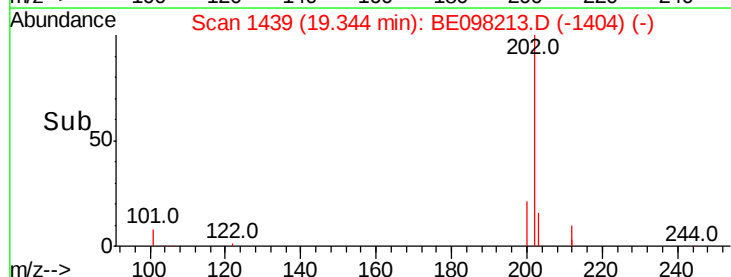
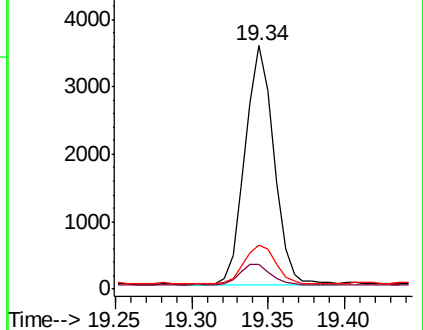
203 17.0 13.7 20.5

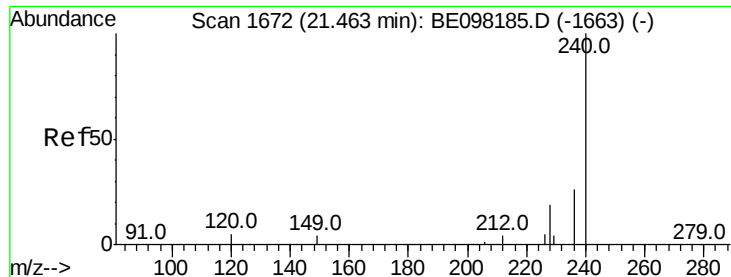


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.46 min Scan# 1671

Delta R.T. -0.00 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

Instrument :

BNA_E

ClientSampleId :

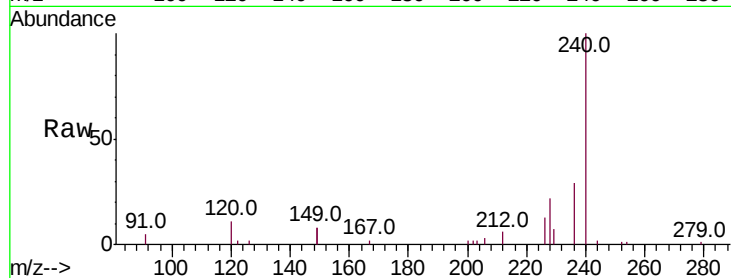
Tot Ion:240 Resp: 10517

Ion Ratio Lower Upper

240 100

120 11.1 4.8 7.2#

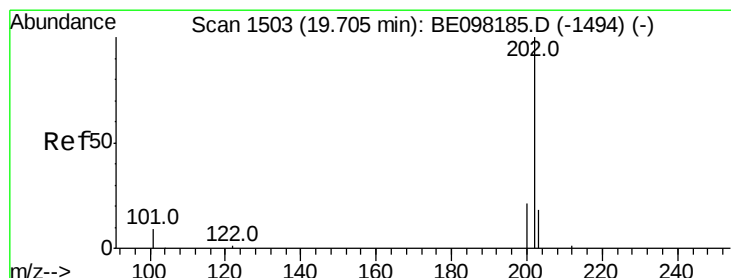
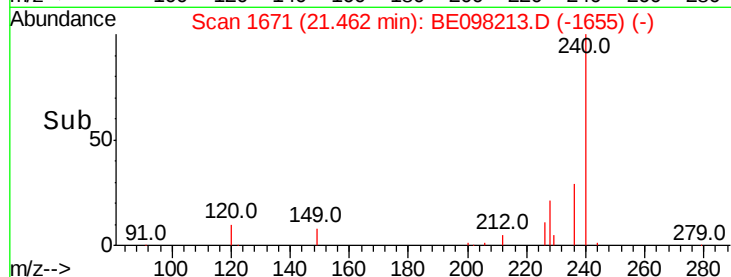
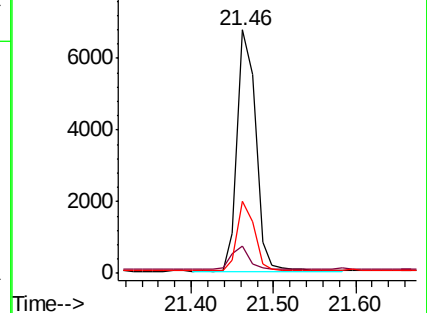
236 29.4 21.4 32.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.176 ng

RT: 19.71 min Scan# 1502

Delta R.T. 0.00 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

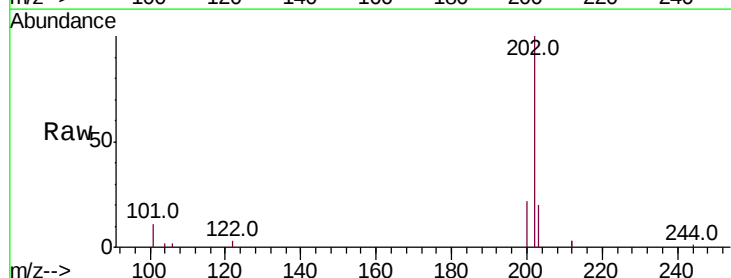
Tgt Ion:202 Resp: 5083

Ion Ratio Lower Upper

202 100

200 21.2 17.2 25.8

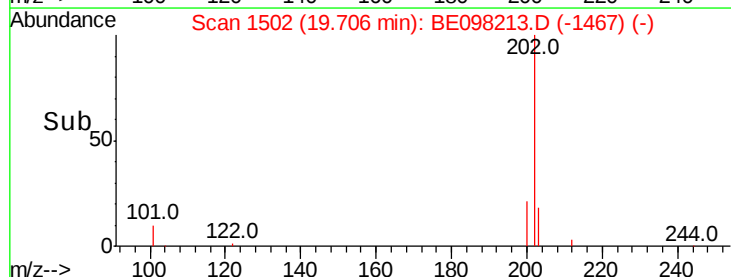
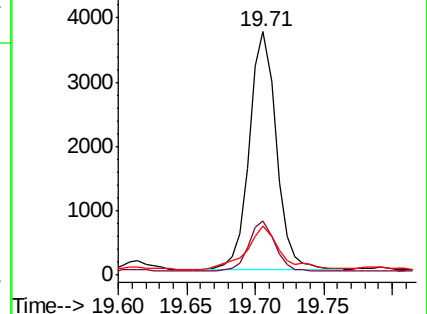
203 22.2 14.2 21.4#

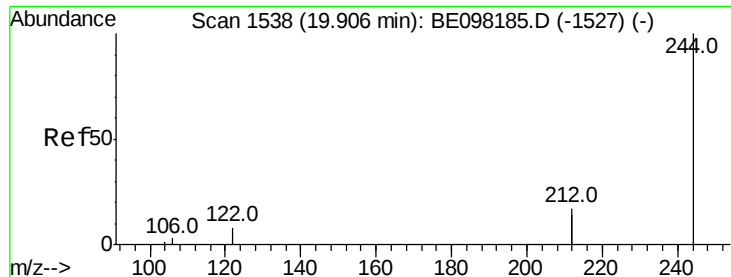


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.295 ng

RT: 19.91 min Scan# 1537

Delta R.T. 0.00 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

Instrument :

BNA_E

ClientSampleId :

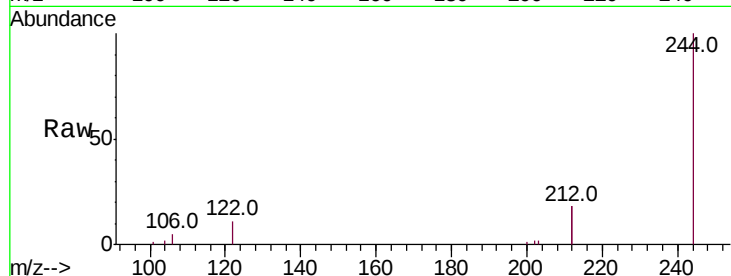
Tot Ion:244 Resp: 7044

Ion Ratio Lower Upper

244 100

212 36.8 26.8 40.2

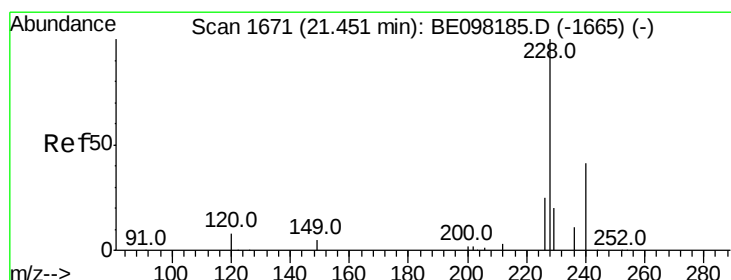
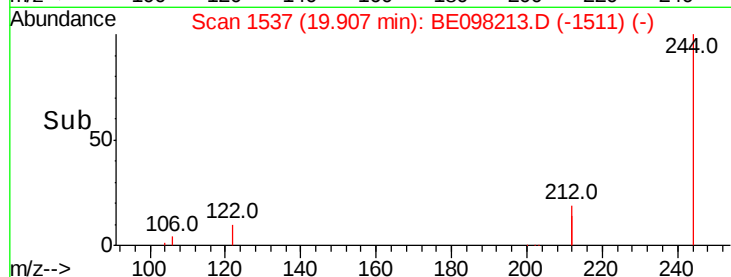
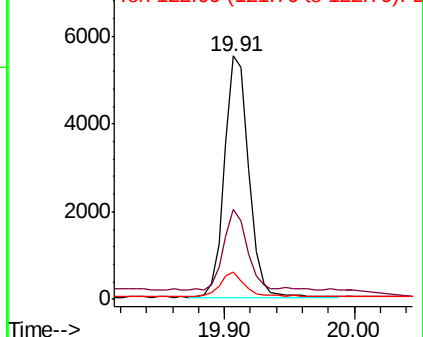
122 11.3 7.0 10.6#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.179 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.00 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

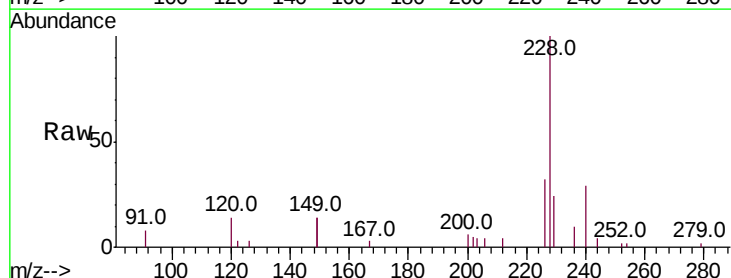
Tgt Ion:228 Resp: 5347

Ion Ratio Lower Upper

228 100

226 31.7 20.7 31.1#

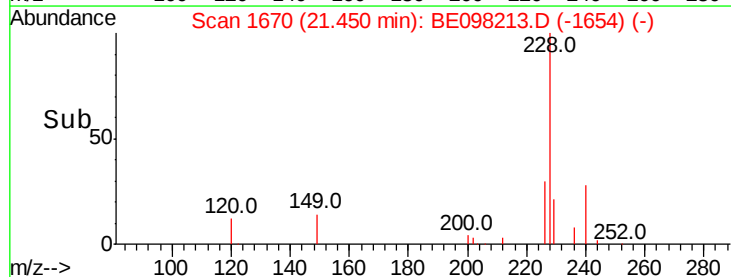
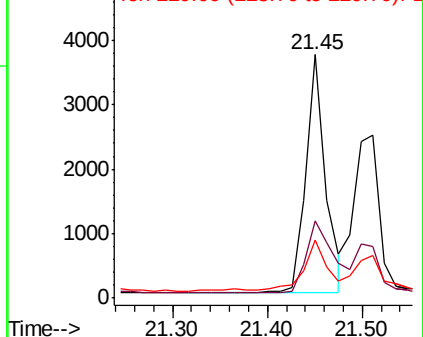
229 23.7 16.2 24.4

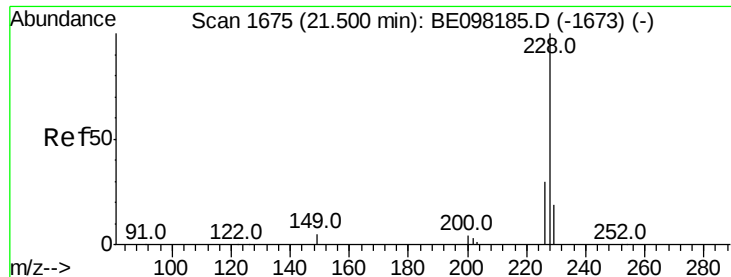


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.164 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.05 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

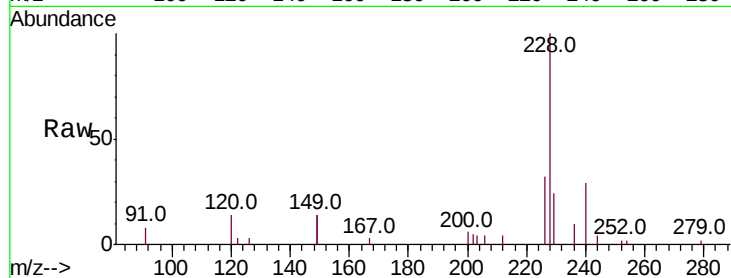
Instrument :

BNA_E

ClientSampleId :

Tot Ion:228 Resp: 4965

Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.6	36.8
229	23.7	16.0	24.0

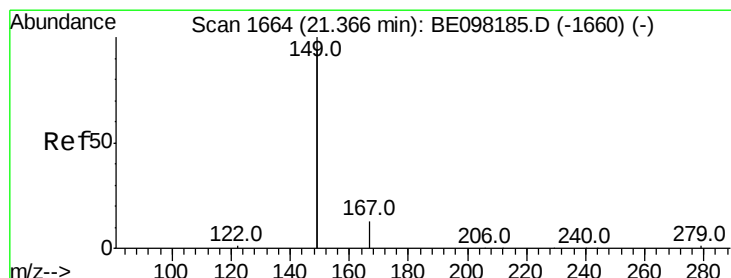
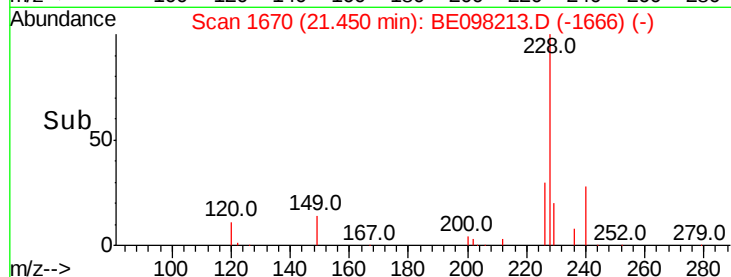
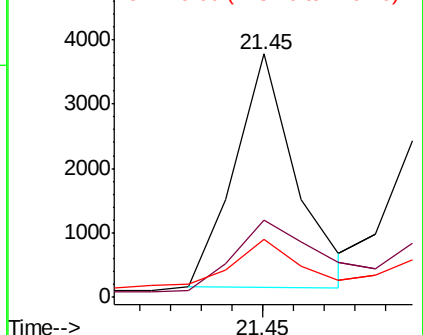


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.227 ng

RT: 21.37 min Scan# 1663

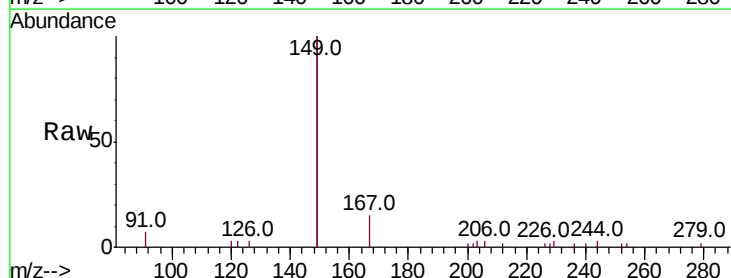
Delta R.T. -0.00 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

Tgt Ion:149 Resp: 14099

Ion	Ratio	Lower	Upper
149	100		
167	6.9	5.6	8.4
279	1.0	0.9	1.3

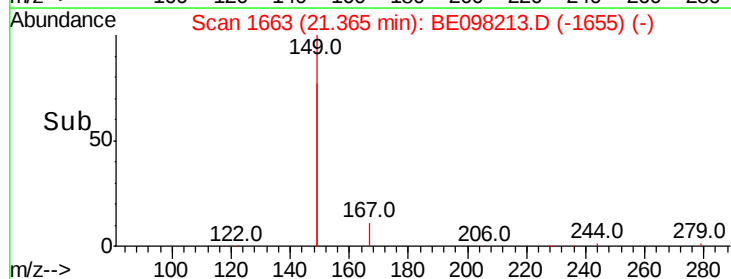
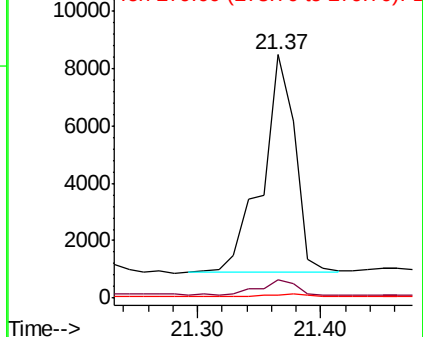


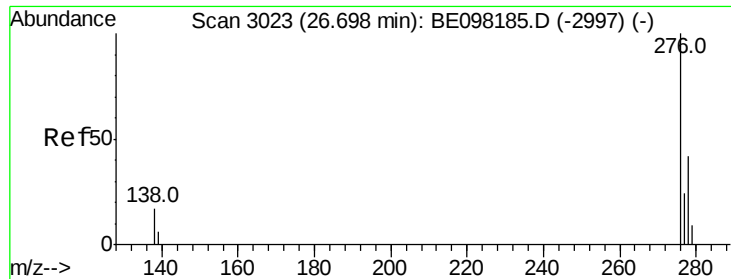
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.100 ng

RT: 26.70 min Scan# 3023

Delta R.T. 0.00 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

Instrument :

BNA_E

ClientSampleId :

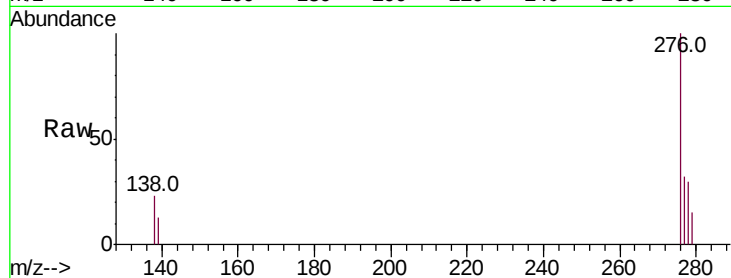
Tot Ion:276 Resp: 2774

Ion Ratio Lower Upper

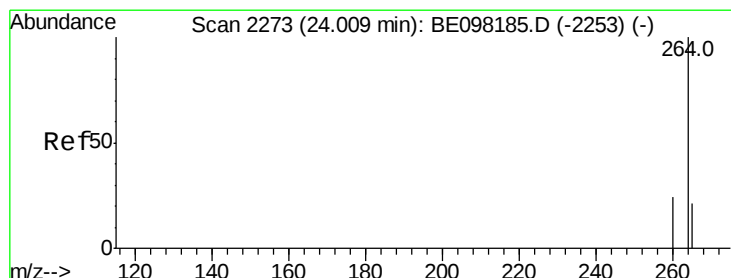
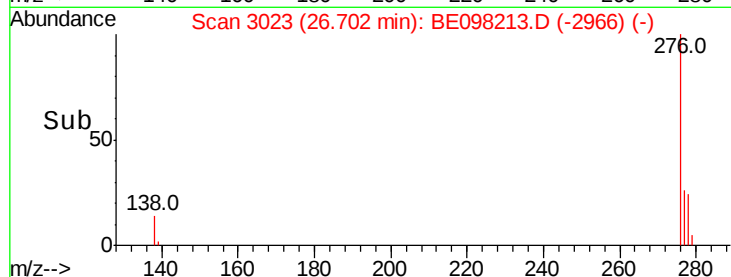
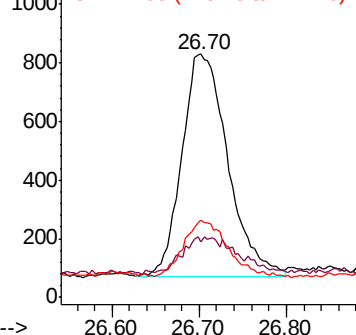
276 100

138 6.8 6.4 9.6

277 23.4 18.9 28.3



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.01 min Scan# 2273

Delta R.T. 0.00 min

Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

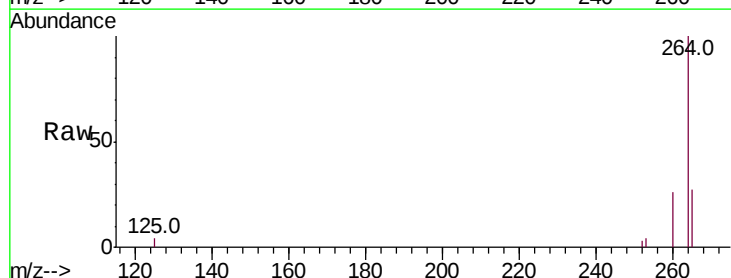
Tgt Ion:264 Resp: 10067

Ion Ratio Lower Upper

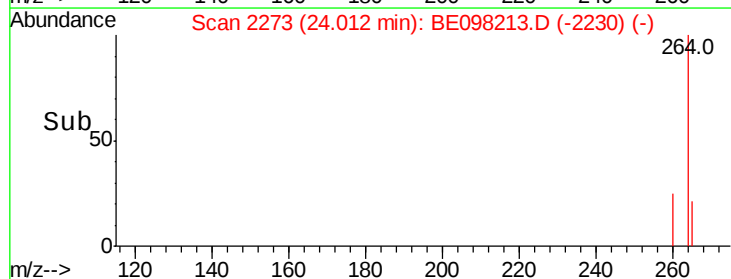
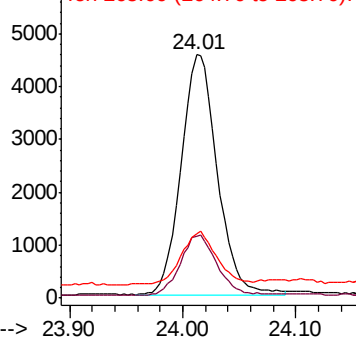
264 100

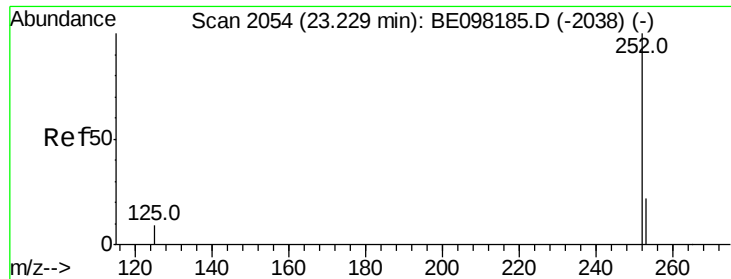
260 25.6 19.9 29.9

265 26.6 21.3 31.9



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

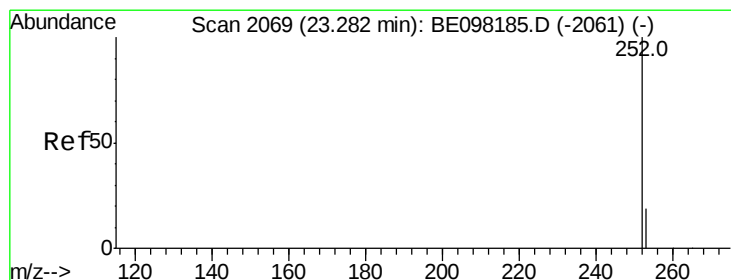
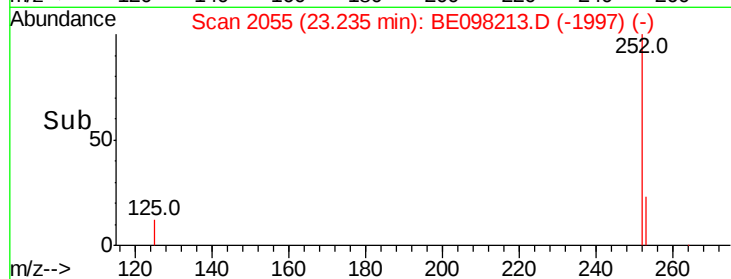
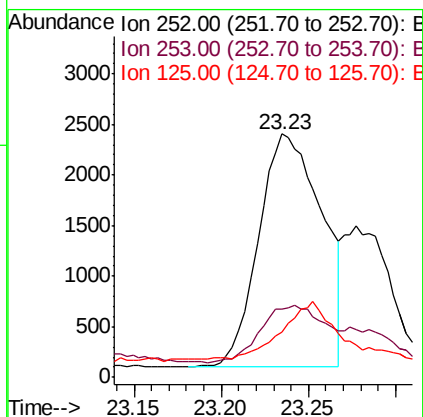
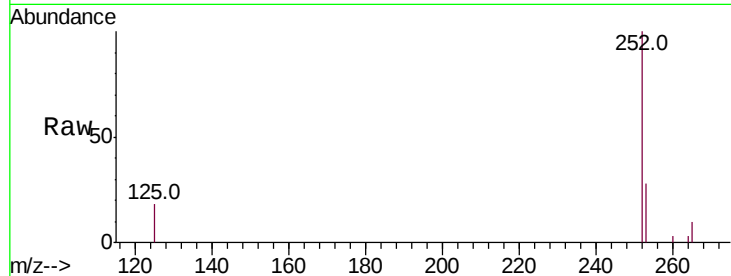




#35
Benzo(b)fluoranthene
Concen: 0.204 ng
RT: 23.23 min Scan# 2055
Delta R.T. 0.01 min
Lab File: BE098213.D
Acq: 13 Nov 2018 17:52

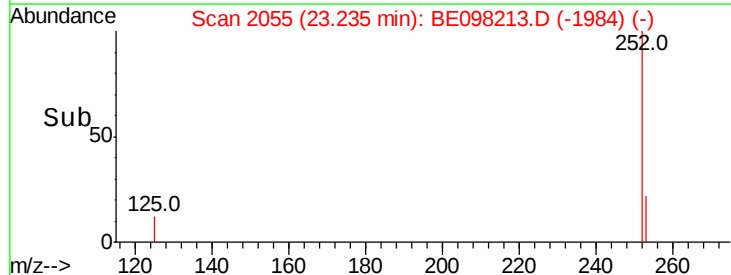
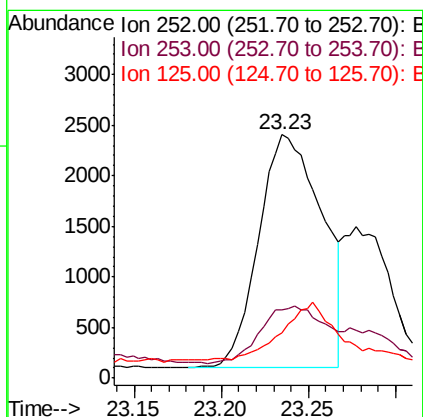
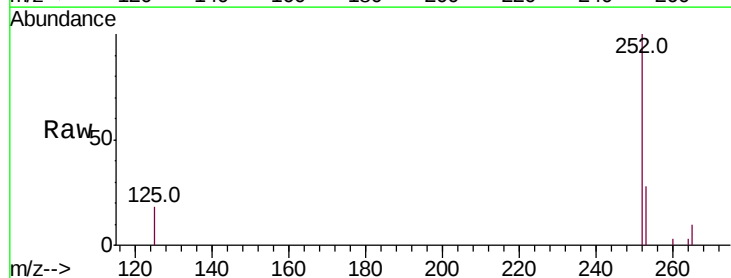
Instrument :
BNA_E
ClientSampleId :

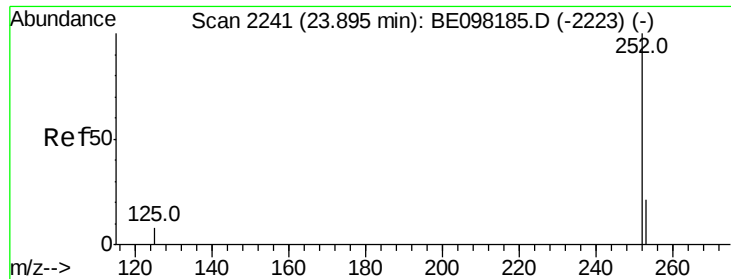
Tot Ion:252 Resp: 5821
Ion Ratio Lower Upper
252 100
253 28.0 19.4 29.0
125 18.4 8.6 12.8#



#36
Benzo(k)fluoranthene
Concen: 0.193 ng
RT: 23.23 min Scan# 2055
Delta R.T. -0.05 min
Lab File: BE098213.D
Acq: 13 Nov 2018 17:52

Tgt Ion:252 Resp: 5821
Ion Ratio Lower Upper
252 100
253 28.0 18.6 28.0#
125 18.4 7.4 11.0#

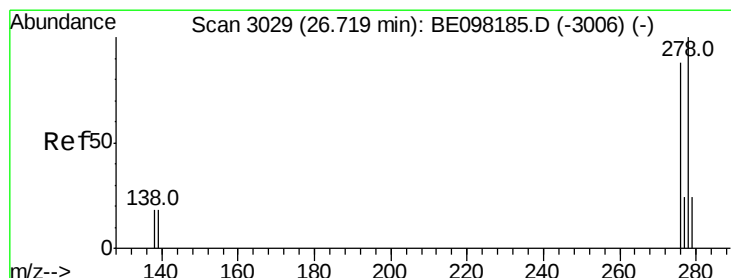
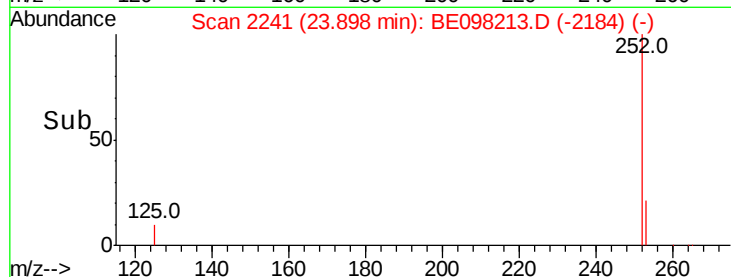
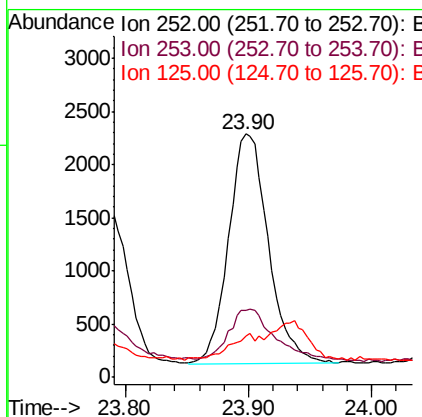
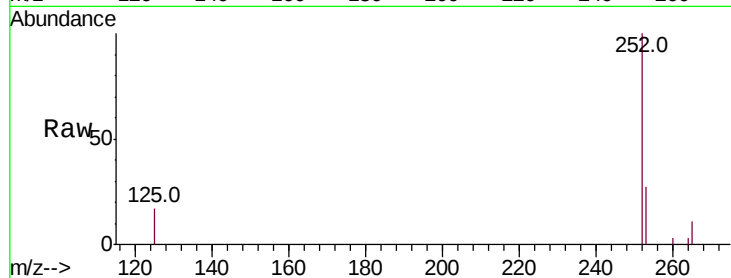




#37
Benzo(a)pyrene
Concen: 0.178 ng
RT: 23.90 min Scan# 2241
Delta R.T. 0.00 min
Lab File: BE098213.D
Acq: 13 Nov 2018 17:52

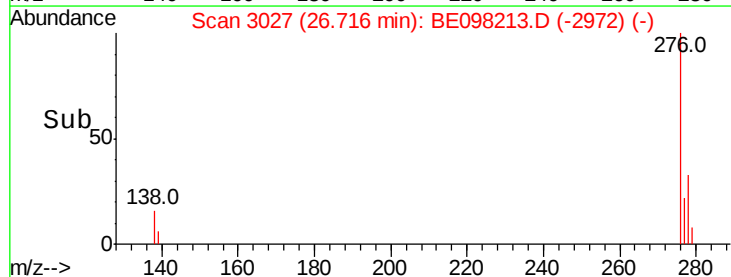
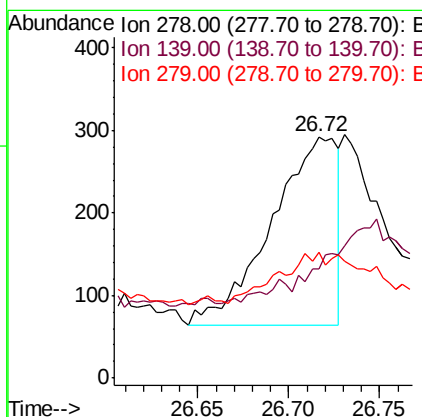
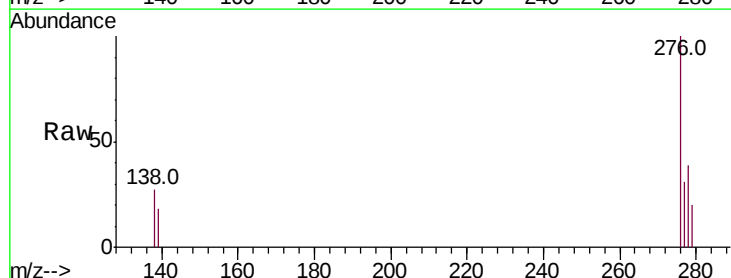
Instrument :
BNA_E
ClientSampleId :

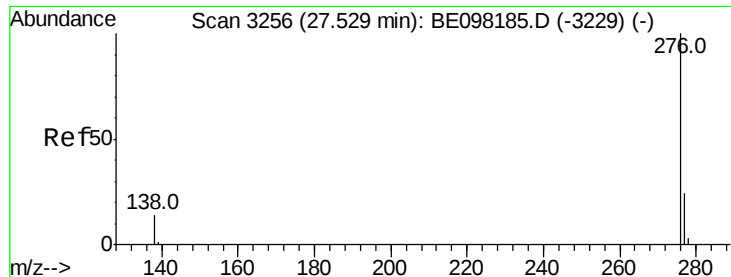
Tot Ion:252 Resp: 4887
Ion Ratio Lower Upper
252 100
253 27.4 18.6 27.8
125 16.8 8.0 12.0#



#38
Dibenzo(a,h)anthracene
Concen: 0.025 ng
RT: 26.72 min Scan# 3027
Delta R.T. -0.00 min
Lab File: BE098213.D
Acq: 13 Nov 2018 17:52

Tgt Ion:278 Resp: 575
Ion Ratio Lower Upper
278 100
139 45.5 16.4 24.6#
279 52.1 21.3 31.9#





#39

Benzo(a,h,i)perylene

Concen: 0.112 ng

RT: 27.53 min Scan# 3256

Delta R.T. 0.00 min

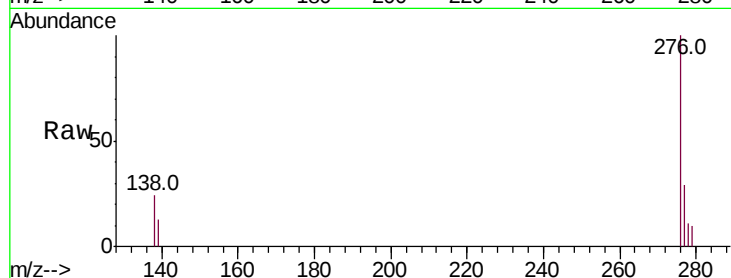
Lab File: BE098213.D

Acq: 13 Nov 2018 17:52

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 276 Resp: 2736

Ion Ratio Lower Upper

276 100

277 29.4 20.4 30.6

138 24.4 13.2 19.8

